



STATE OF WASHINGTON

## STATE BUILDING CODE COUNCIL

### 2015 Washington State Energy Code Development Energy Code Proposal Short Form

For editorial **Coordination, Clarifications & Corrections** only,  
without substantive energy or cost impacts

Code being amended: ☐ **Commercial** Provisions ☐ **Residential** Provisions  
(A MS Word version of the code is linked to the name )

Code Section # C405.4.2 (2) Add note for Unfinished Spaces

#### Brief Description:

The WSEC cannot set a light level requirement for lighting an “unfinished” space with the exception of required life safety for egress. By stating that the path of egress is designated by the building department, it applies the only standard we have for lighting requirements in an unfinished space: life safety at 1FC minimum at the floor down a path of egress designated by the Building Plan Reviewer and 11FC at the elevator threshold as required by the elevator code. Until an actual use plan is developed for the space, there is no minimum requirement except for life safety and elevator. General accepted industry practice is roughly (1) 5000 lumen LED strip fixture per 1000 SF (roughly .034 watts per SF) to show the space, but there is no recommended practice to establish if this is adequate because there is no task assigned to an unfinished space.

Proposed code change text: (Copy the existing text from the Integrated Draft, linked above, and then use underline for new text and ~~strikeout~~ for text to be deleted.)

**Note: Formatting is not correct – word document was not available, only pdf.**

Add the following to the notes after Space-By-Space Method and include the new note designation in the column heading “COMMON SPACE-BY-SPACE TYPES” as shown below:

#### COMMON SPACE-BY-SPACE TYPES<sup>a,o</sup>

~~o. Where a space is designated “Unfinished”, the LPD shall be based on the building specific space type listed (i.e. Future Office, Future Laboratory). Lighting for the space shall meet life safety requirements for illumination at the path of egress designated by the building department plans reviewer, and by the elevator code Where a space is designated as unfinished, neither the area nor the lighting power in the space shall be calculated as part of the LPA.~~

**C405.4.2 Interior lighting power allowance.** The total interior lighting power allowance (watts) for an entire building shall be determined according to Table C405.4.2(1) using the Building Area Method, or Table C405.4.2(2) using the Space-by-Space Method. The interior lighting power allowance for projects that involve only portions of a building shall be determined according to Table C405.4.2(2) using the Space-by-Space Method. Buildings with unfinished spaces shall use the Space-by-Space Method.

**C405.4.2.2 Space-by-space method.** Where a building has ~~unfinished spaces~~, code a space designated as unfinished, neither the area nor the lighting power in the space shall be calculated as part of the LPA.

For the Space-by-Space Method, the interior lighting power allowance is calculated as follows:

1. For each area enclosed by partitions that are not less than 80 percent of the ceiling height, determine the applicable space type from Table C405.4.2(2). For space types not listed, select the space type that most closely represents the proposed use of the space. Where a space has multiple functions, that space shall be broken up into smaller subspaces, each using their own space type.
2. Determine the total floor area of all of the spaces of each space type and multiply by the value for the space type in Table C405.4.2(2) to determine the lighting power (watts) for each space type.
3. The total interior lighting power allowance (watts) shall be the sum of the lighting power allowances for all space types.

Purpose of code change: To clarify LPD when calculating unfinished spaces within a new building.

Simplification for all users.

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